Montana Comprehensive Assessment System (MontCAS, Phase 2)

Criterion-Referenced Test (CRT)

COMMON CONSTRUCTED-RESPONSE ITEM RELEASE
MATHEMATICS, GRADE 3

2008

OPI

OFFICE OF PUBLIC INSTRUCTION

For information, contact Measured Progress, P.O. Box 1217, Dover, NH 03821-1217.
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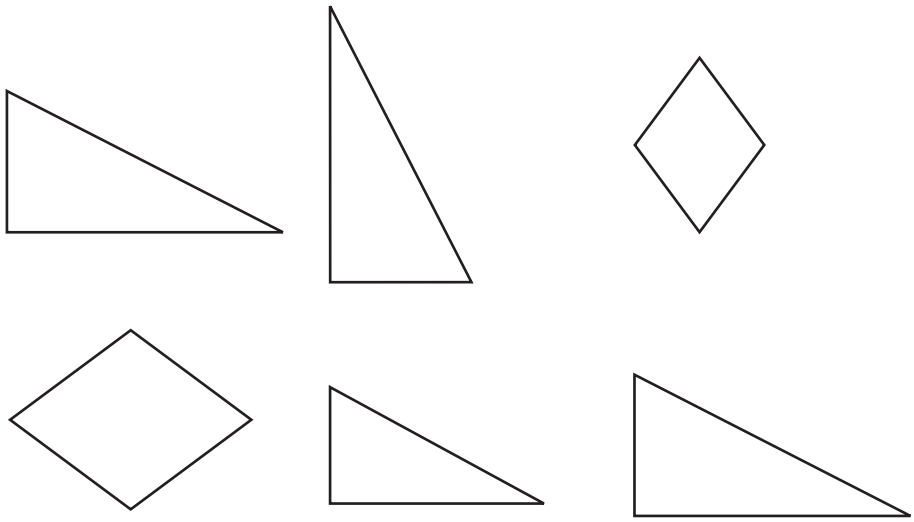
Mathematics

Session 1 (No Calculator)

You may NOT use a calculator during this part of the test.

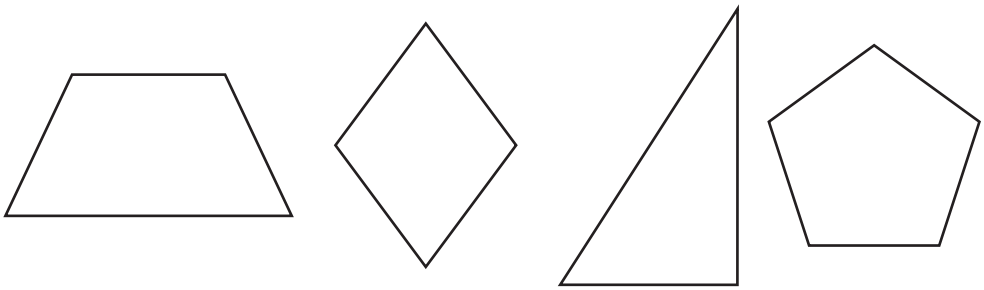
Write out your answer in the box below.

25. Look at the figures below.



a. Put an **X** on the figures that are the same size and shape.

Look at the figures below.



b. Circle the figure that could be made from two triangles that are the same size and shape.

c. Draw a line on the figure you circled to show how it could be cut into two triangles that are the same size and shape.

Scoring Guide

Score	Description
4	4 points
3	3 points
2	2 points
1	1 point
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.
Blank	No response.

Scoring Notes

Part a: 2 points identifies three correct figures with no incorrect figures identified

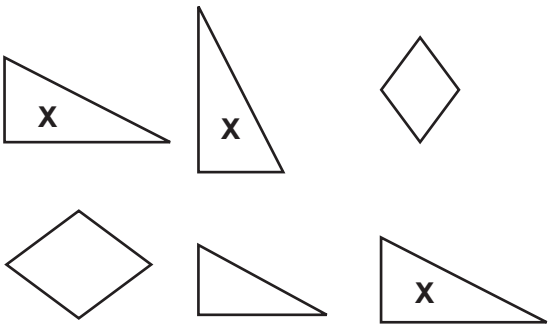
OR

1 point identifies two correct figures with no incorrect figures identified

Part b: 1 point circles correct figure, with no incorrect figure circled

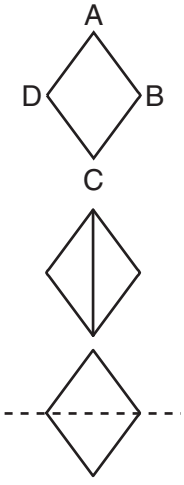
Part c: 1 point correct explanation on how to cut the figure into two triangles

Sample Response for Part a:



Sample Response for Part c:

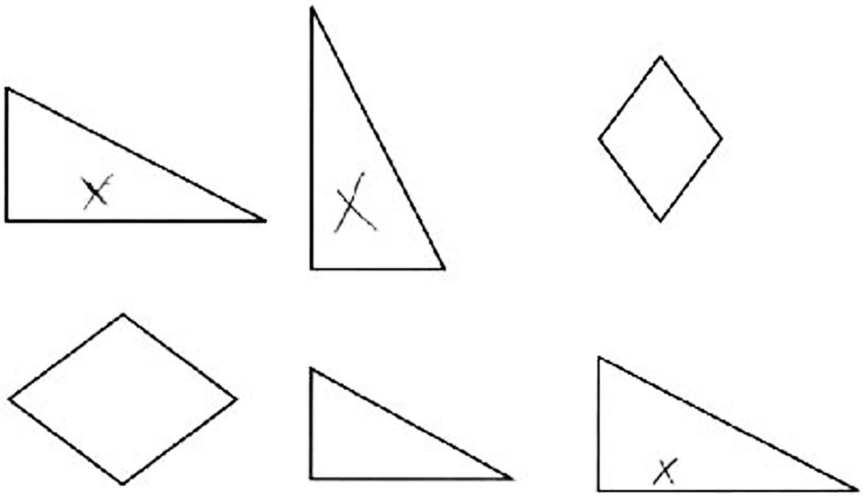
Cut from A to C.



Score Point 4

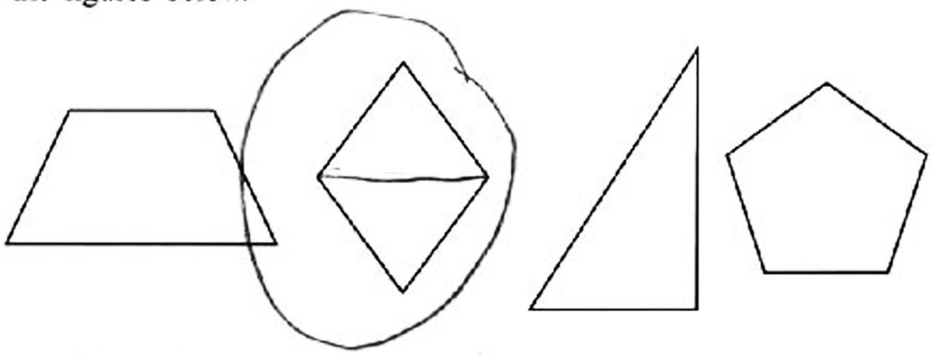
Sample 1

Look at the figures below.



a. Put an **X** on the figures that are the same size and shape.

Look at the figures below.



b. Circle the figure that could be made from two triangles that are the same size and shape.

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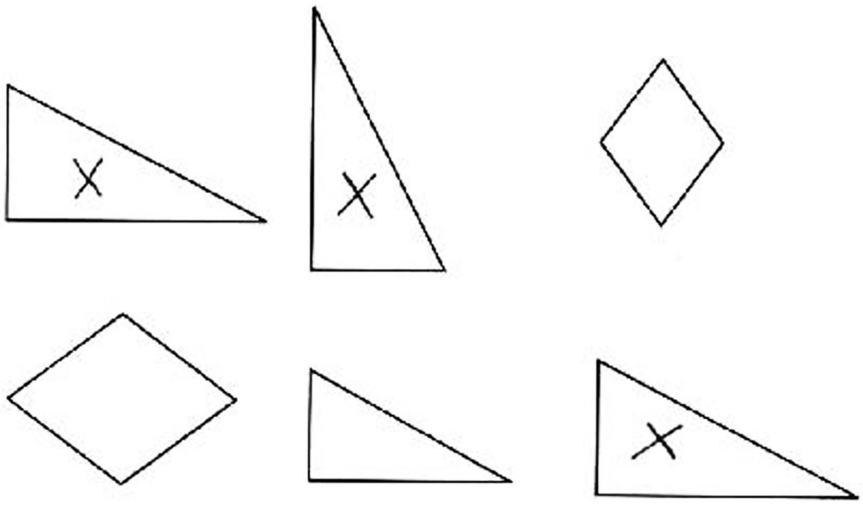
c. Draw a line on the figure you circled to show how it could be cut into two triangles that are the same size and shape.

Score Point 4

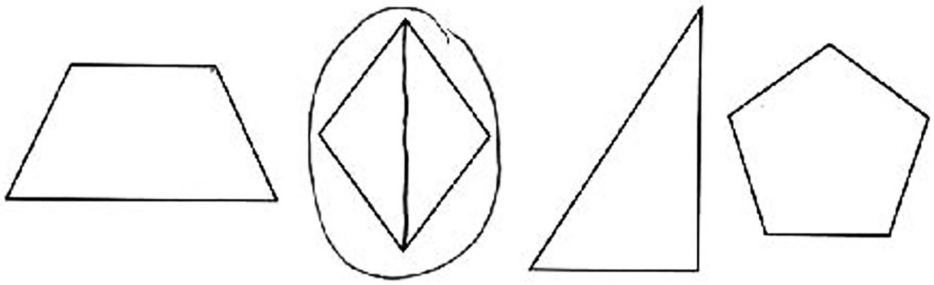
Sample 2

Look at the figures below.



a. Put an **X** on the figures that are the same size and shape.

Look at the figures below.



b. Circle the figure that could be made from two triangles that are the same size and shape.

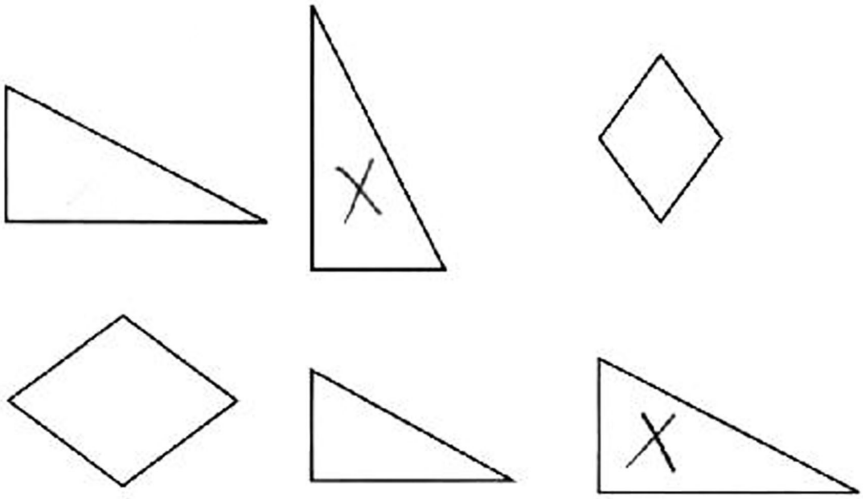
---

c. Draw a line on the figure you circled to show how it could be cut into two triangles that are the same size and shape.

Score Point 3

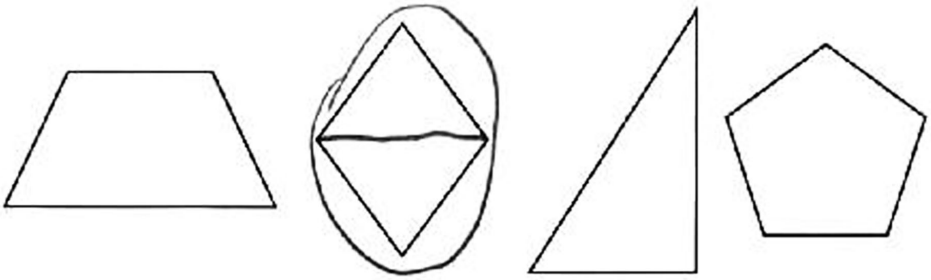
Sample 1

Look at the figures below.



a. Put an **X** on the figures that are the same size and shape.

Look at the figures below.



b. Circle the figure that could be made from two triangles that are the same size and shape.

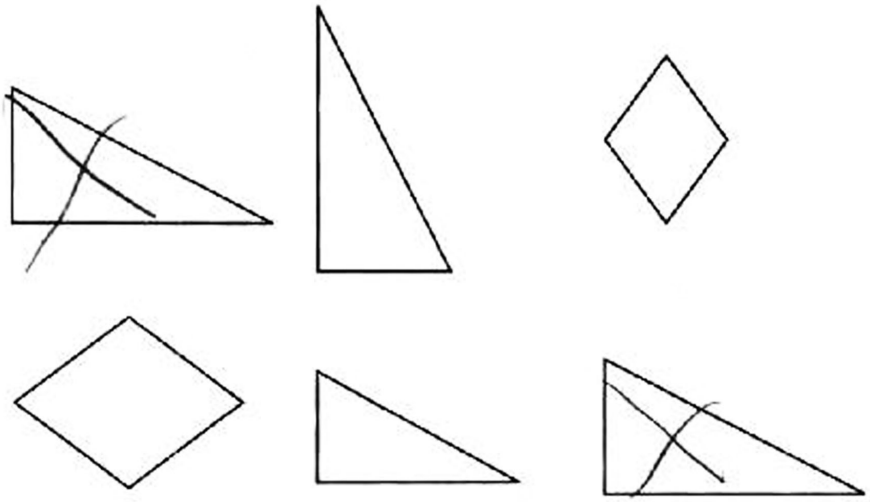
---

c. Draw a line on the figure you circled to show how it could be cut into two triangles that are the same size and shape.

Score Point 3

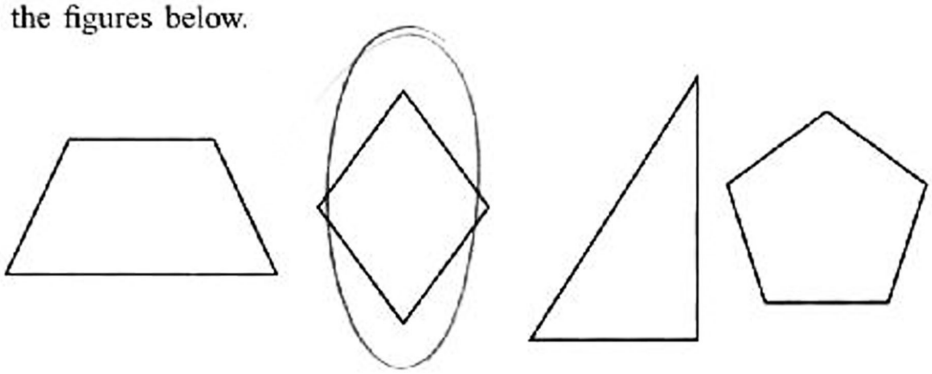
Sample 2

Look at the figures below.



a. Put an **X** on the figures that are the same size and shape.

Look at the figures below.



b. Circle the figure that could be made from two triangles that are the same size and shape.

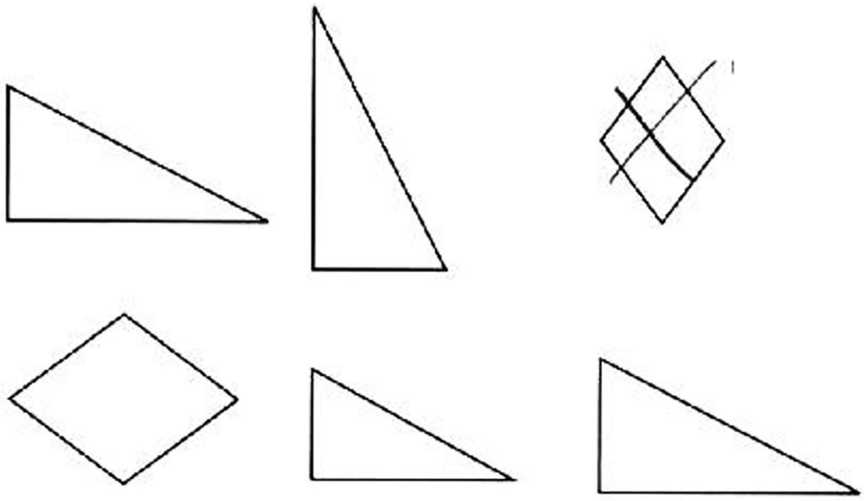
---

c. Draw a line on the figure you circled to show how it could be cut into two triangles that are the same size and shape.

Score Point 2

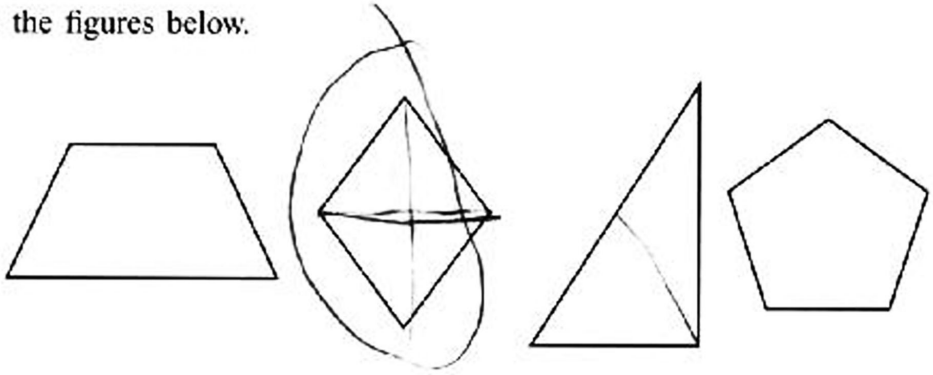
Sample 1

Look at the figures below.



a. Put an **X** on the figures that are the same size and shape.

Look at the figures below.



b. Circle the figure that could be made from two triangles that are the same size and shape.

---

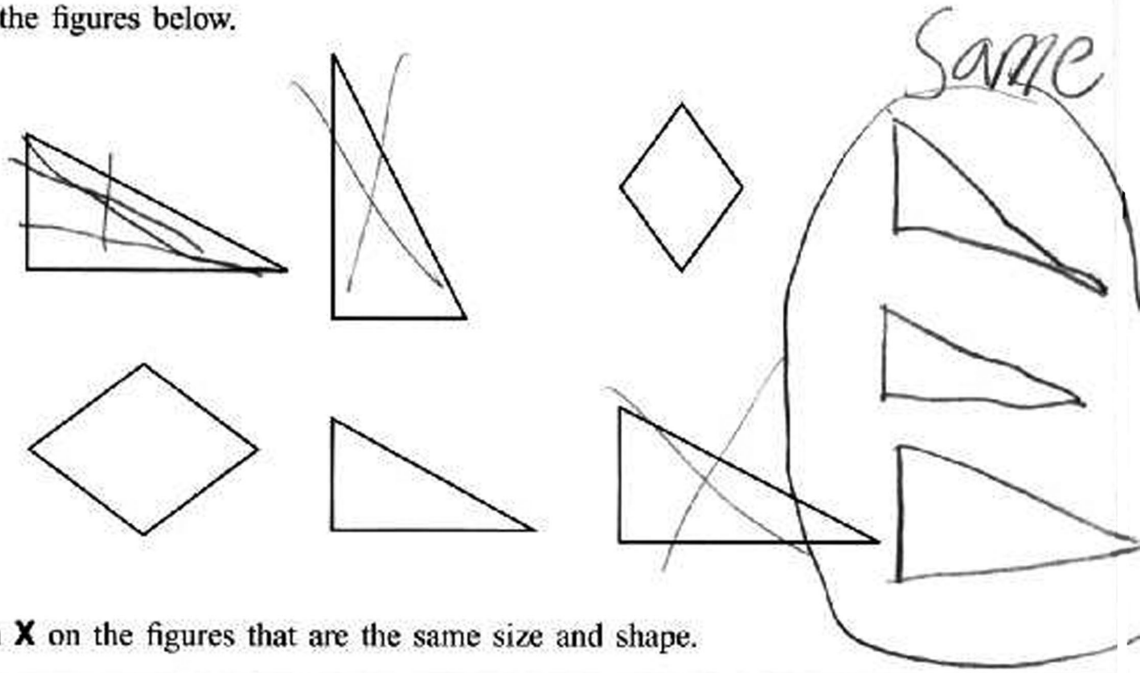
c. Draw a line on the figure you circled to show how it could be cut into two triangles that are the same size and shape.

you cant cut across the middle

Score Point 2

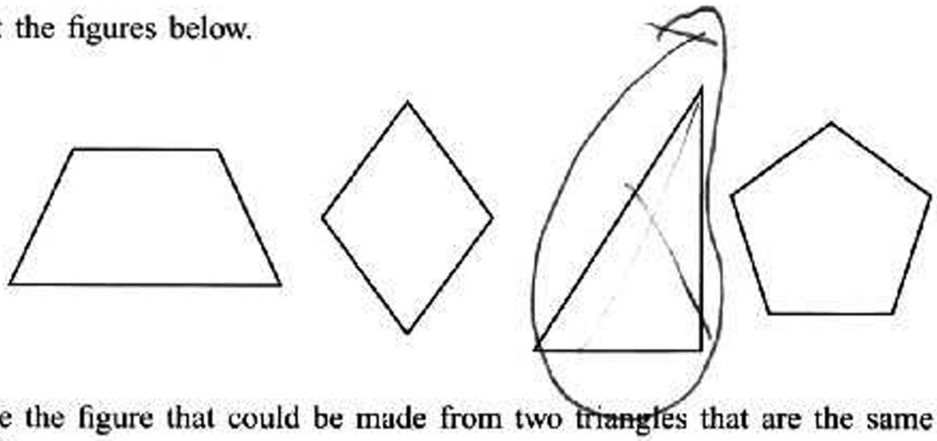
Sample 2

Look at the figures below.



a. Put an **X** on the figures that are the same size and shape.

Look at the figures below.



b. Circle the figure that could be made from two triangles that are the same size and shape.

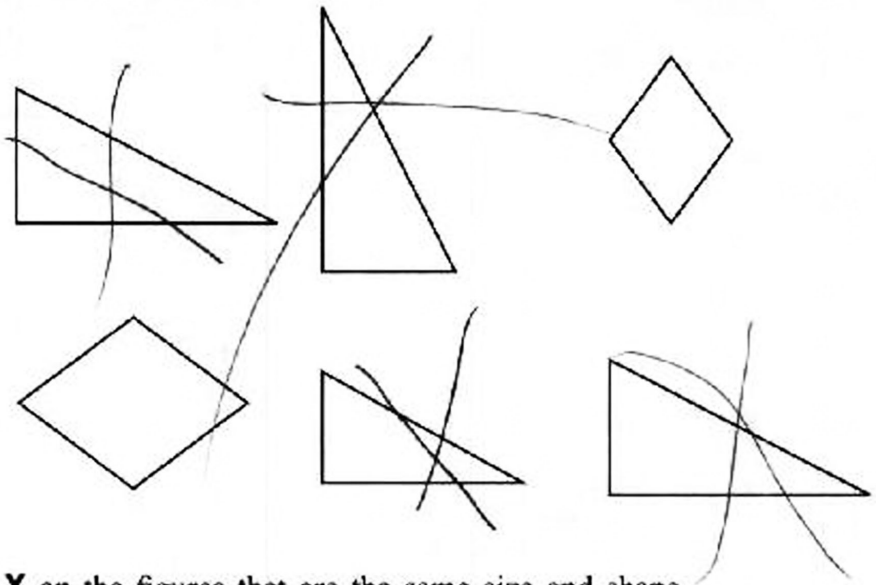
---

c. Draw a line on the figure you circled to show how it could be cut into two triangles that are the same size and shape.

Score Point 1

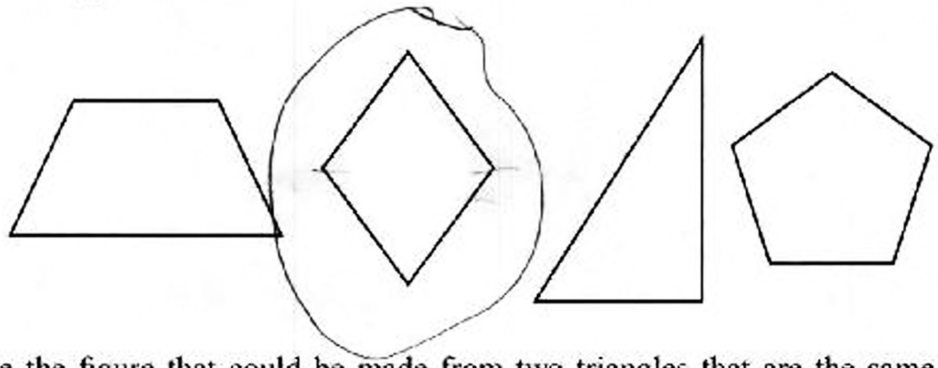
Sample 1

Look at the figures below.



a. Put an **X** on the figures that are the same size and shape.

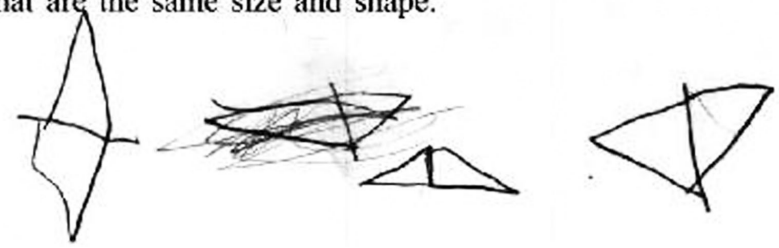
Look at the figures below.



b. Circle the figure that could be made from two triangles that are the same size and shape.

---

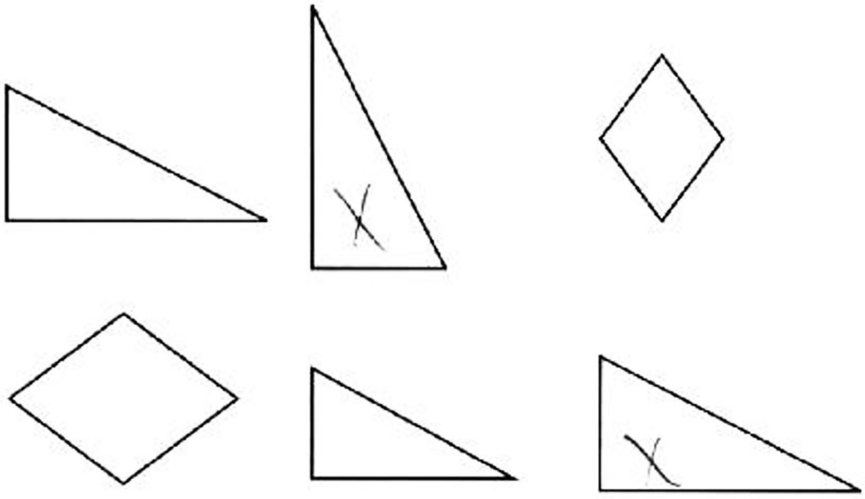
c. Draw a line on the figure you circled to show how it could be cut into two triangles that are the same size and shape.



Score Point 1

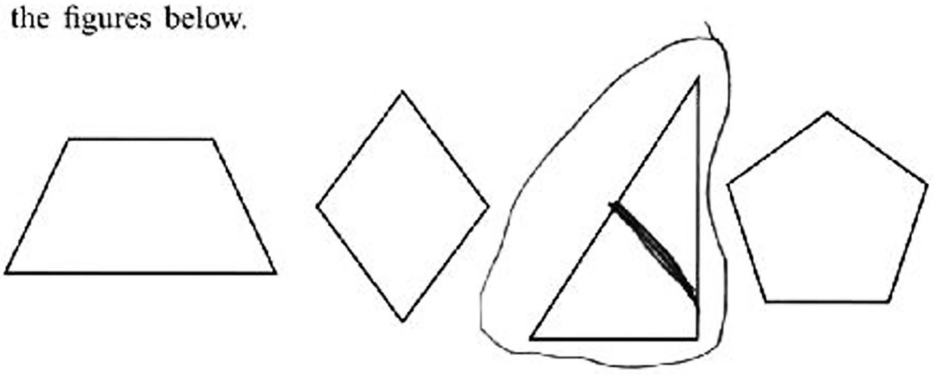
Sample 2

Look at the figures below.



a. Put an **X** on the figures that are the same size and shape.

Look at the figures below.



b. Circle the figure that could be made from two triangles that are the same size and shape.

---

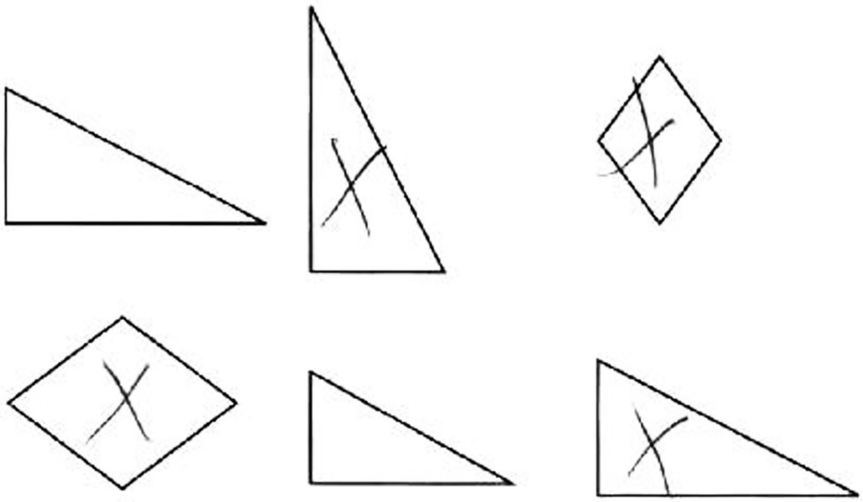
c. Draw a line on the figure you circled to show how it could be cut into two triangles that are the same size and shape.

They are both triangles and scalene triangles.

Score Point 0

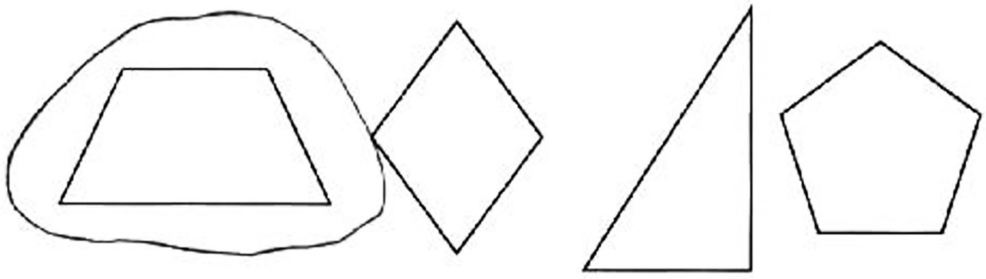
Sample 1

Look at the figures below.



a. Put an **X** on the figures that are the same size and shape.

Look at the figures below.



b. Circle the figure that could be made from two triangles that are the same size and shape.

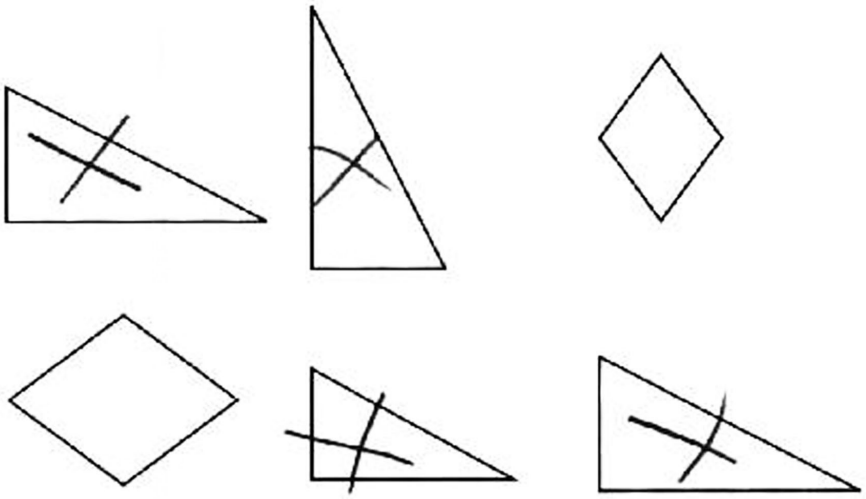
---

c. Draw a line on the figure you circled to show how it could be cut into two triangles that are the same size and shape.

Score Point 0

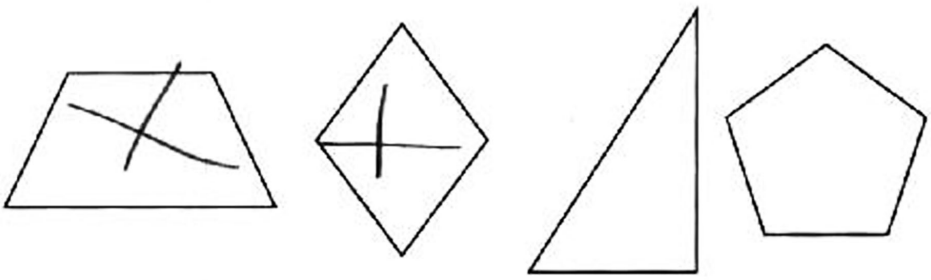
Sample 2

Look at the figures below.



a. Put an **X** on the figures that are the same size and shape.

Look at the figures below.



b. Circle the figure that could be made from two triangles that are the same size and shape.

---

c. Draw a line on the figure you circled to show how it could be cut into two triangles that are the same size and shape.